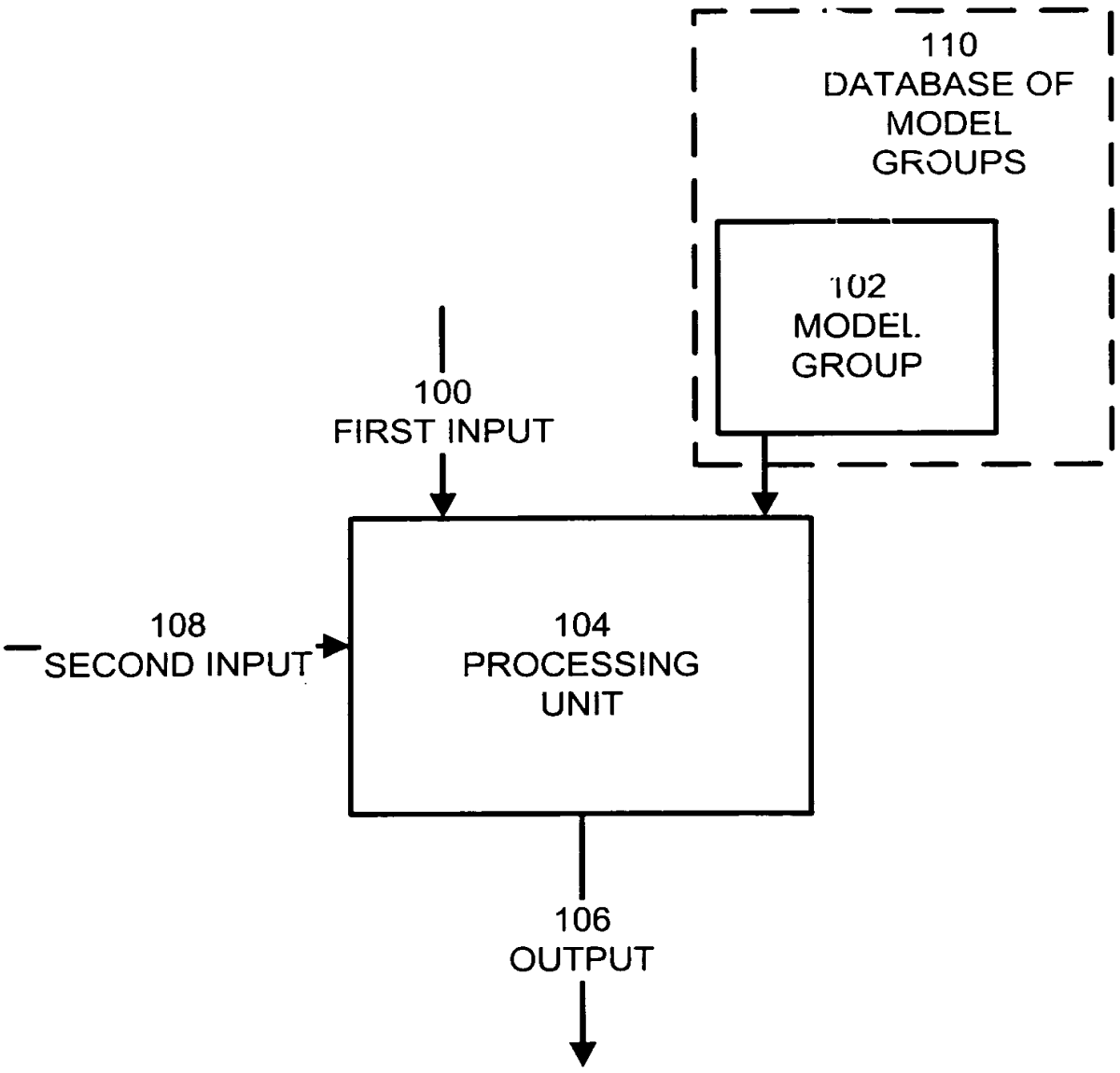
110
DATABASE OF
MODEL
GROUPS
102
MODEL
GROUP
100
FIRST INPUT
108
SECOND INPUT
104
PROCESSING
UNIT
106
OUTPUT

FIGURE 1

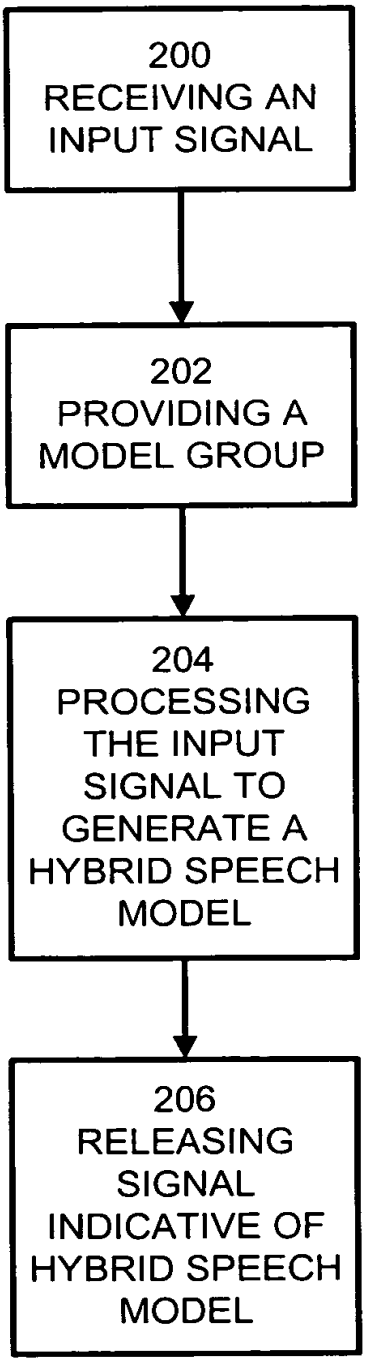
200
RECEIVING AN INPUT SIGNAL
202
PROVIDING A MODEL GROUP
204
PROCESSING THE INPUT SIGNAL TO GENERATE A HYBRID SPEECH MODEL
206
RELEASING SIGNAL INDICATIVE OF HYBRID SPEECH MODEL

FIGURE 2

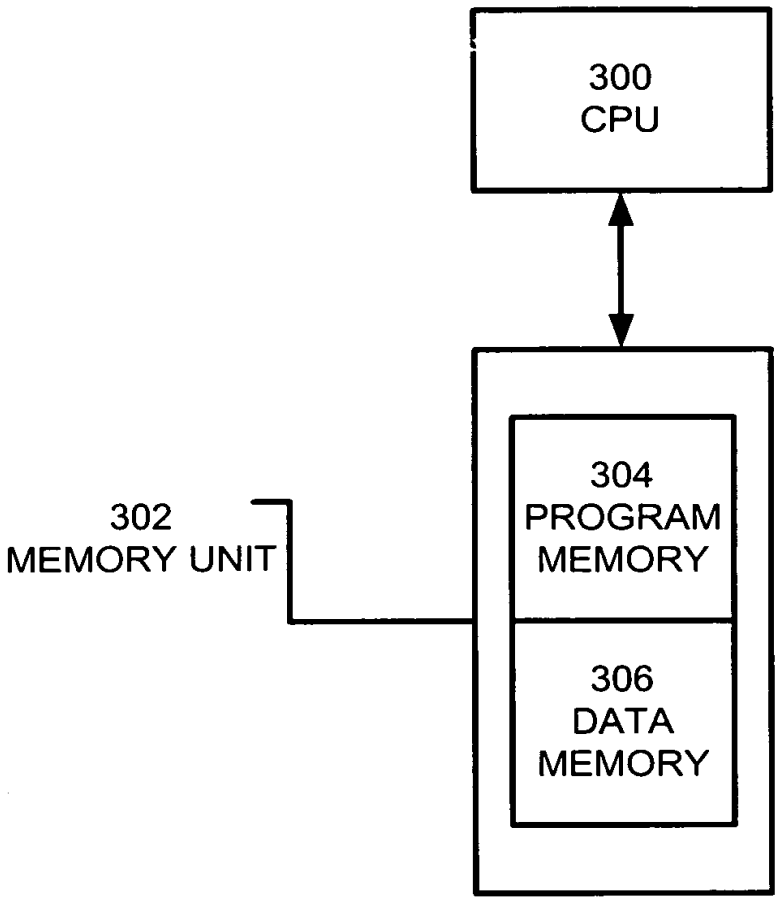

FIGURE 3

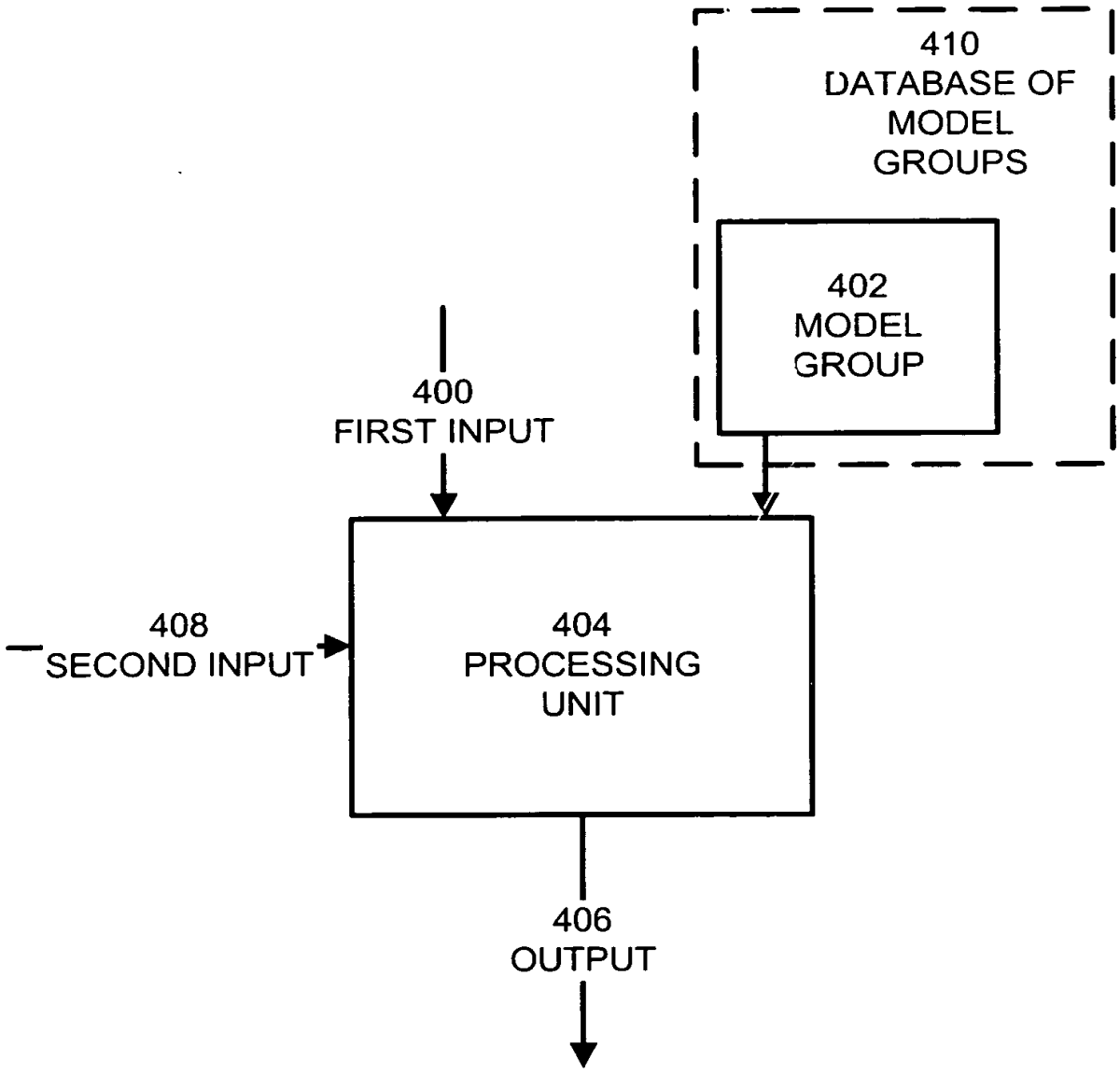
410
DATABASE OF
MODEL
GROUPS
402
MODEL
GROUP
400
FIRST INPUT
408
SECOND INPUT
404
PROCESSING
UNIT
406
OUTPUT

FIGURE 4

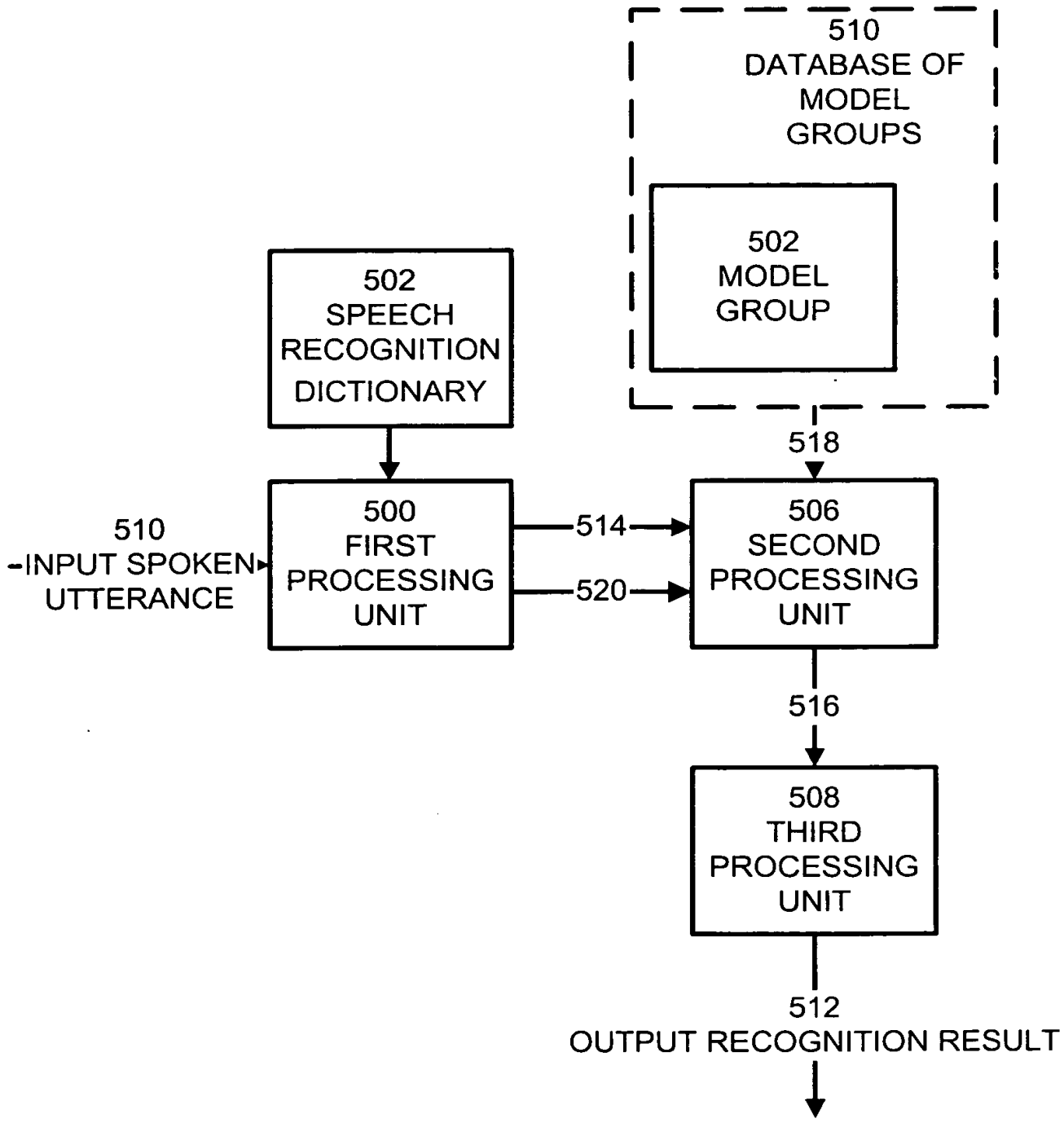
510
DATABASE OF
MODEL
GROUPS
502
MODEL
GROUP
502
SPEECH
RECOGNITION
DICTIONARY
518
510
INPUT SPOKEN
UTTERANCE
500
FIRST
PROCESSING
UNIT
514
520
506
SECOND
PROCESSING
UNIT
516
508
THIRD
PROCESSING
UNIT
512
OUTPUT RECOGNITION RESULT

FIGURE 5

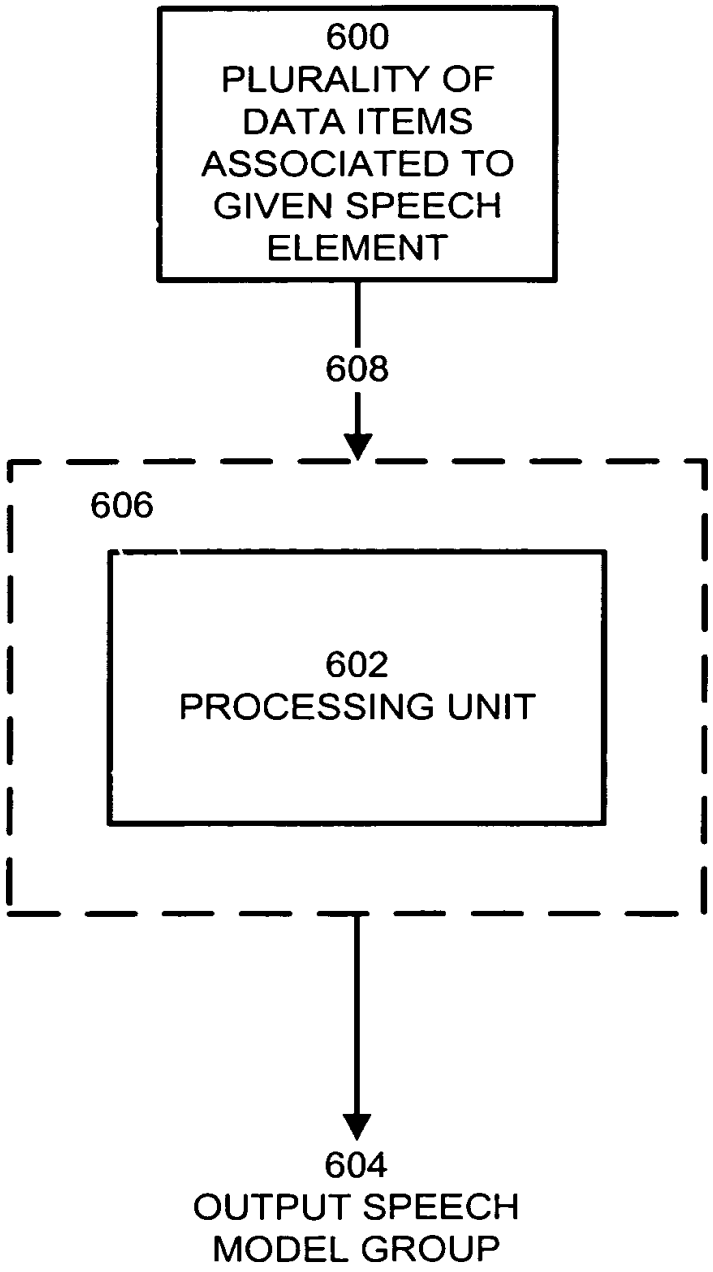
600
PLURALITY OF DATA ITEMS ASSOCIATED TO GIVEN SPEECH ELEMENT
608
606
602
PROCESSING UNIT
604
OUTPUT SPEECH MODEL GROUP

FIGURE 6

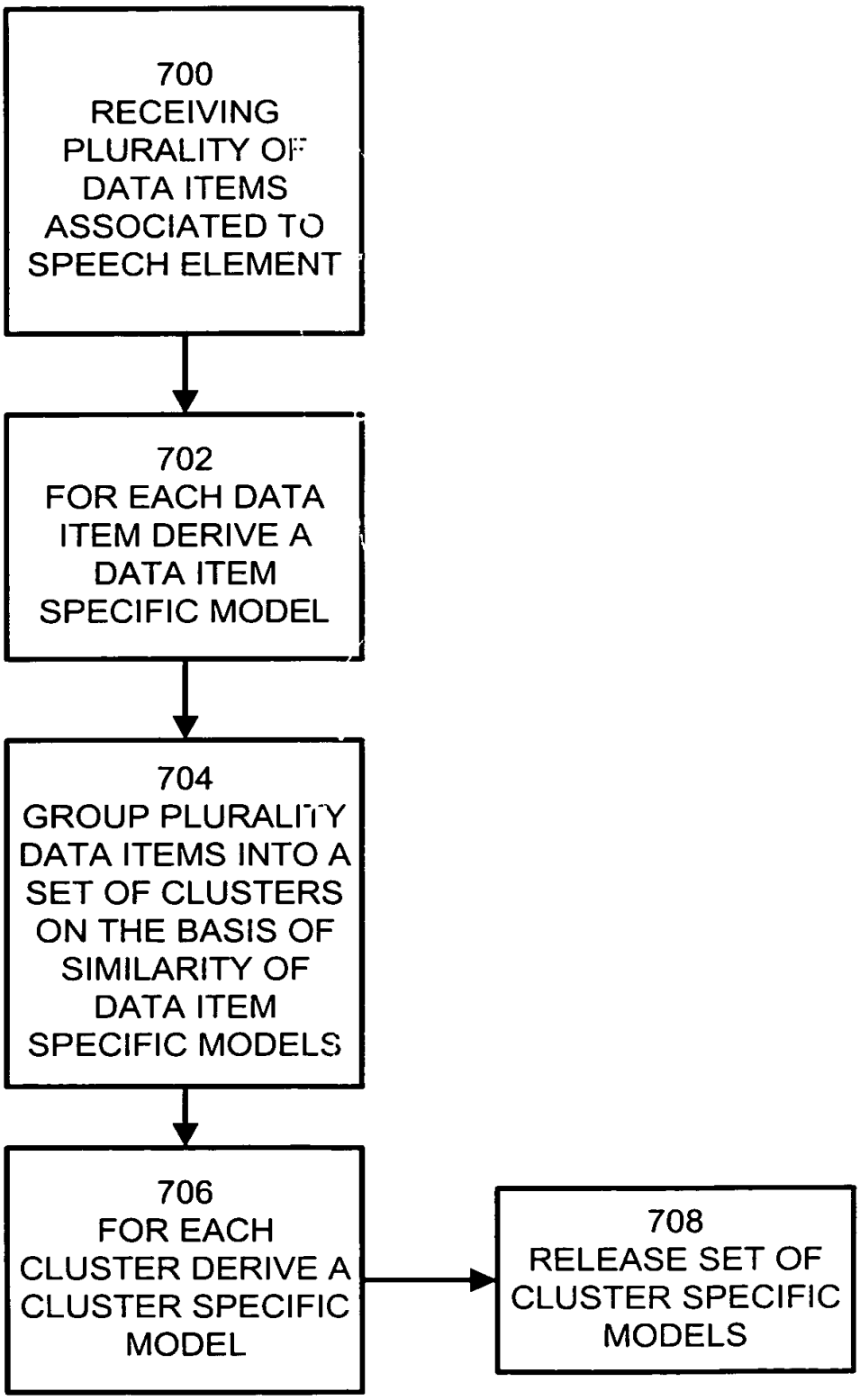
700
RECEIVING PLURALITY OF DATA ITEMS ASSOCIATED TO SPEECH ELEMENT
702
FOR EACH DATA ITEM DERIVE A DATA ITEM SPECIFIC MODEL
704
GROUP PLURALITY DATA ITEMS INTO A SET OF CLUSTERS ON THE BASIS OF SIMILARITY OF DATA ITEM SPECIFIC MODELS
706
FOR EACH CLUSTER DERIVE A CLUSTER SPECIFIC MODEL
708
RELEASE SET OF CLUSTER SPECIFIC MODELS

FIGURE 7

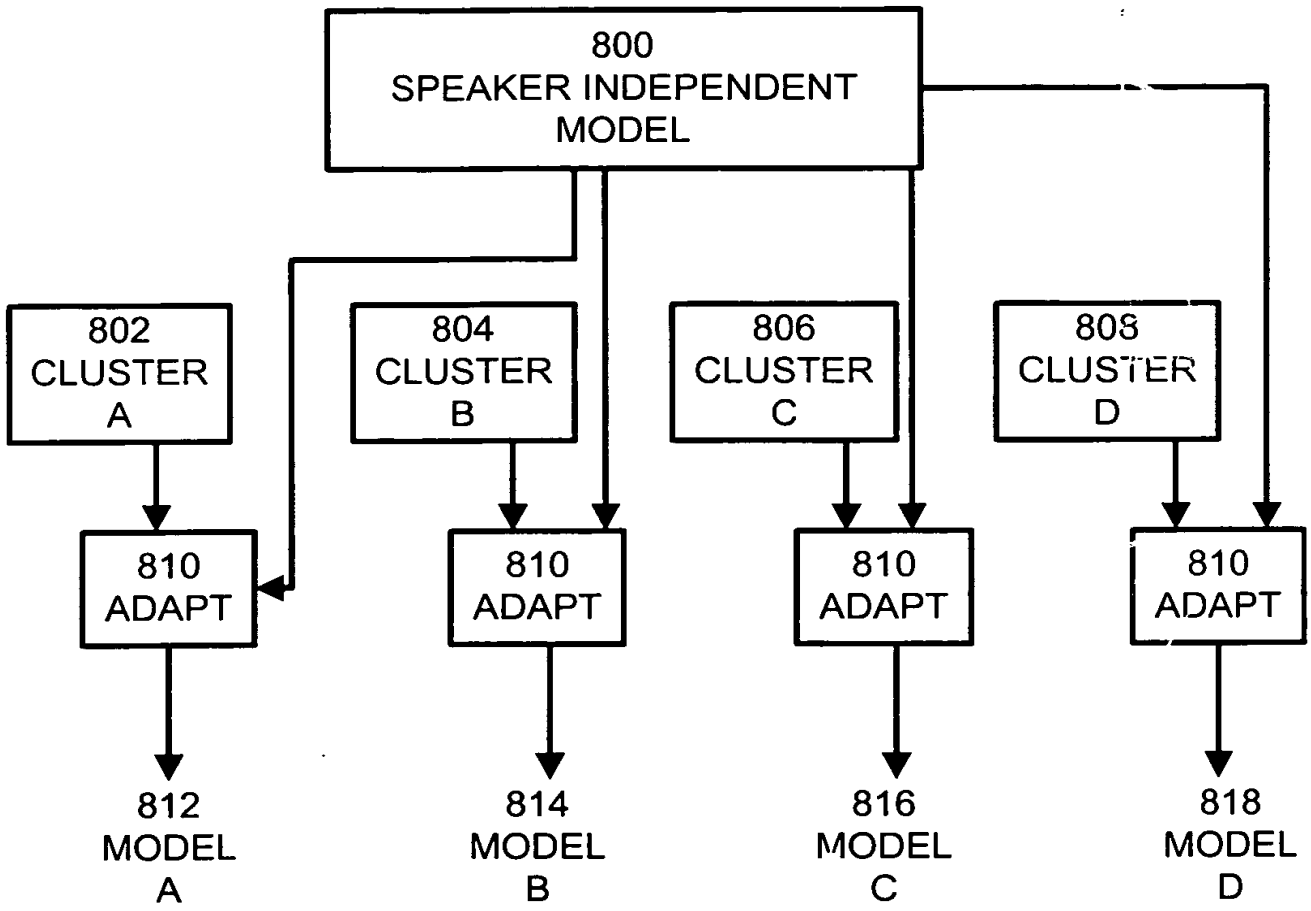
800
SPEAKER INDEPENDENT
MODEL
802
CLUSTER
A
804
CLUSTER
B
806
CLUSTER
C
808
CLUSTER
D
810
ADAPT
810
ADAPT
810
ADAPT
810
ADAPT
812
MODEL
A
814
MODEL
B
816
MODEL
C
818
MODEL
D

FIGURE 8